

IN THE CLAIM

Please amend claims 1, 2, 4, 5, 8, 9, 10 – 18, 34, 37 and 38, as follows;

1 1. (Thrice Amended) A video printer, comprising:

2 data conversion means responsive to first data representative of successive lines of a video
3 raster scan, for deriving second data representative of successive columns of video data extending
4 transversely across lines of said video raster scan from said first data, said data conversion means
5 comprising memory means for storing said first data [representative of fields of said video raster
6 scan] at every vertical line for each color, and means for converting said first data stored in said
7 memory means for successive fields of [the] said video raster scan[,] into [the] columns of said
8 second data during respective [successive periods associated with the occurrence of] successive
9 field periods of [the] said video raster scan; and

10 means for printing the columns of said second data successively.

1 2. (Thrice Amended) A video printer according to claim 1, wherein successive
2 [fields] said field periods of [the] said video raster scan [have associated] comprise blanking
3 periods, and the columns of said second data are read from [the] said memory means during
4 corresponding successive ones of [the] said blanking periods.

1 4. (Thrice Amended) A video printer according to claim 1, wherein [said raster

scan data represents of a color video display, and] said memory means comprises a plurality of memory units for storing [signals representing corresponding] said first data in a different [colors] color for each field of said video [the] raster scan [field].

5. (Twice Amended) A video printer according to claim 4, wherein [the] said printing means operates to print [said] (different [color representing signals] colors of said second data) ^{LAG} successively in columns.

8. (Twice Amended) A video printer according to claim 5, wherein each color representing said second data for [a] each field of said video raster scan stored in [the] said memory means is printed during a blanking period [associated with] in a respective field period of [the] said video raster scan.

9. (Twice Amended) A high speed color video printer, comprising:
^{3 functions} means for storing digital video signals in an internal memory as video data, reading [and accommodating printing of a] column [unit] units of said video data stored in said internal memory during [one field period of each] a blanking [signal] interval in each field period, and applying [a] field [unit] units of said video data for a display providing a variable visual image during a residual period of said field period that excludes said blanking interval [field period of reading and enabling printing of said video data];

selection means for selectively providing one color of said video data from said column

[unit] units of said video data read from said internal memory;

line memory means for [enabling printing by] storing each column unit of said video data
provided from said selection means during said blanking interval, and enabling printing of said
one color of said video data from^{said}each column unit of said video data when said each column
unit of said video data is read from said line memory means during said residual period [and then
reading said video data selectively provided by said selection means]; and
digital-to-analog converter means for^{ind.}(enabling)said display by converting said field units
of said video data into analog signals.

10. (Twice Amended) A high speed color video printer, comprising:

means for providing color video data from a video signal;

^{2 functions} data conversion means for storing said color video data in an internal memory [at
recording addresses generated by said recording address generating means in response to a
recording signal], and for selectively reading [the stored] said color video data [of the] stored in
said internal memory in columns [at printing addresses generated in said printing address
generating means and] corresponding to pixels of a raster scan of an interlaced video field [for
printing in response to a printing signal]; [and]

line memory means for [providing] storing said [selectively read] color video data
selectively read from said internal memory in columns; and

printer means for column-by-column printing [by storing] said [selectively read] color
video data stored in said line memory means [in columns].

13 11. (Amended) The high speed color video printer of claim 10, [wherein said]
14 further comprising printing address generating means [generates said] for generating printing
15 addresses for enabling said printer means to print [printing of] a first of said columns of said
16 [selectively read] color video data selectively read from said internal memory during a vertical
17 synchronizing and equalizing pulse period of a blanking interval of a first field period.

1 12. (Amended) The high speed color video printer of claim 10, [wherein said]
2 further comprising printing address generating means [generates said] for generating printing
3 addresses for enabling said printer means to print [printing] a number n of said columns of said
4 [selectively read] color video data selectively read from said internal memory during a vertical
5 synchronizing and equalizing pulse period of a blanking interval of a number n field period,
6 where n is an integer ranging sequentially from 1 to a number of columns in a frame.

1 13. (Twice Amended) The high speed color video printer of claim 10, further
2 comprising display means for displaying said [stored] color video data selectively read from said
3 [of the] internal memory [of the data conversion means in response to a monitoring signal].

1 14. (Amended) The high speed color video printer of claim 13, wherein said data
2 conversion means further comprises monitoring address generating means for providing
3 monitoring addresses of odd rows and monitoring addresses of even rows of said color video data
4 stored in said internal memory for enabling field units of said stored color video data to be

5 displayed on said display means [by generating said monitoring addresses of said internal
6 memory].

1 15. (Twice Amended) The high speed color video printer of claim 14, wherein after
2 said data conversion means has selectively read said color video data for printing, said data
3 conversion means first provides said odd rows of an odd field of a frame of said color video data
4 to said display [displaying] means for displaying said odd rows of said odd field of said frame
5 during a remainder of an odd field period of said odd field and second provides said even rows
6 of an even field of said color video data to [the displaying] said display means during a
7 remainder of an even field period of said even field.

1 16. (Twice Amended) The high speed color video printer of claim 10, wherein said
2 internal memory comprises:

3 a first discrete memory for exclusively storing red chrominance components of said color
4 video data [in correspondence with said recording addresses];

5 a second discrete memory for exclusively storing green chrominance components of said
6 color video data [in correspondence with said recording addresses]; and

7 a third discrete memory for exclusively storing blue chrominance components of said
8 color video data [in correspondence with said recording addresses].

1 17. (Amended) A [high speed color video] printer, comprising:

means for separating a luminance component and a chrominance component of a video signal;

first switching means for providing, in response to a first selection signal, a first switch signal representative of one of a super video signal and said luminance and chrominance components of said video signal;

decoding means for providing sync signals and chrominance components in response to the first [switching] switch signal;

second switching means for providing, in response to a second selection signal, a second [switching output signals] switch signal representative of one of said sync signals and said chrominance components [and said sync signal] provided from the decoding means, and external color and sync signals;

analog-to-digital converting means for providing converted chrominance components and converted external color signals by converting said second switch signal;

data converting means for providing color video data corresponding to ~~said~~ one of ~~said~~ converted chrominance components and converted external color signals in response to a mode signal;

third switching means for selectively applying said color video data to line memory means in response to a third selection signal; [and]

[an] intermediate gradation converting [circuit] means for providing said color video data of [the] said line memory means in columns to a thermal print head for printing; and

controlling means for generating said first, second, third selection signals and said mode

23 signal to control operation of said printer.

1 18. (Twice Amended) The printer of claim 17, further comprised of said data
2 [converter] converting means comprising:

3 internal memory means for storing said color video data, said internal memory means
4 comprising a print output port and a display output port;

5 recording address generating means for providing recording addresses in said internal
6 memory means for storing said color video data by generating said recording addresses in
7 response to a recording mode signal;

8 printing address generating means for providing printing addresses of said internal
9 memory means of said color video data for printing in columns by generating said printing
10 addresses in response to a printing mode signal;

11 monitoring address generating means for providing monitoring addresses of odd rows and
12 monitoring addresses of even rows of said color video data stored in said internal memory means
13 by generating said monitoring addresses of said internal memory means in response to a
14 monitoring mode signal; [and]

15 address selector means for selecting one of said recording addresses, said printing
16 addresses and said monitoring addresses in response respectively to one of said recording mode
17 signal, said printing mode signal and said monitoring mode signal; and

18 said controlling means controlling generation of said recording mode signal, said printing
19 mode signal, said monitoring mode signal. ↘ but what generates it?

1 34. (Amended) The video printer of claim 1, wherein said [deriving] data
2 conversion means further comprises: [printing address generating means,]
3 recording address generating means [and an internal memory, said deriving means] for
4 generating recording addresses enabling storing color video [data] components of said first data
5 in [the] an internal memory; [at recording addresses generated by said recording address
6 generating means in response to a recording signal applied to said deriving means and, said]
7 ^{2-functions} printing address generating means for generating printing addresses enabling ~~selectively~~
8 reading of said [stored] color video [data of] components of said first data stored in the internal
9 memory in said columns of said second data [at printing addresses generated in said printing
10 address generating means and corresponding to pixels of a raster scan of an interlaced video field,
11 said selective reading provided for] and enabling printing of visual images representative of [said]
12 color video components of said second data [in response to a printing signal]; and
13 line memory means for providing said [selectively read] color video components of said
14 second data selectively read from said internal memory for column-by-column printing by
15 storing said [selectively read] color video components of said first data in columns.

1 37. (Amended) The video printer of claim 34, wherein said [deriving] data
2 conversion means further comprises monitoring address generating means for providing
3 monitoring addresses of odd rows and monitoring addresses of even rows of said color video
4 components of said first data stored in said internal memory for enabling field units of said color
5 video components of said second data read from said internal memory to be displayed on display

6 means [by generating said monitoring addresses of said internal memory].

*no
corresponding
function*

1 38. (Amended) The video printer of claim 34, wherein after said [deriving] data
2 conversion means has selectively read said color video data stored in said internal memory for
3 printing, said [deriving] data conversion means first provides said odd rows of an odd field of
4 a frame of said color video components of said second data to [the displaying] said display
5 means during a remainder of an odd field period of said odd field, and [second] then provides
6 said even rows of an even field of said color video components of said second data to [the
7 displaying] said display means during a remainder of an even field period of said even field for
8 enabling a visual display of said color video data on said display means.



REMARKS